

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

---

- 547  
017
- C'
1. (Previously presented): A method of providing version-specific information associated with a file stored in a computer system to an application, the method comprising:  
receiving a request to create a version-specific attribute, wherein the attribute is associated with the file;  
maintaining the version-specific attribute to reflect relevant updates to the file by automatically invalidating the version-specific information in response to a predetermined event, wherein the version-specific attribute comprises meta information and mask information, the mask information providing information related to which predetermined events invalidate the version-specific attribute,  
receiving a request by the application to evaluate the version-specific attribute; and  
providing the version specific information to the application in response to the request to evaluate the version specific attribute.
  2. (Original): A method as defined in claim 1 wherein the application is a virus scan application.
  3. (Original): A method as defined in claim 1 wherein the application is a replicator application.
  - 547  
017 5. (Original): A method as defined in claim 1 wherein the predetermined event is an update to file data.
  6. (Original): A method as defined in claim 1 further comprising:  
providing mask information as part of the version-specific attribute; and  
determining the predetermined event based on the mask information.

5/27/01  
comprises

(Original): A method of as defined in claim 1 wherein the method further providing security information within the version-specific attribute.

8. (Original): A method as defined in claim 1 wherein the invalidating act further comprises deleting the version-specific attribute.

C1  
9. (Original): A computer program product readable by a computer and encoding instructions for executing the method recited in claim 1.

10. (Previously presented): A method of accessing a file stored in a computer system, the file having an associated version-specific attribute, wherein the version-specific attribute comprises meta information and mask information, the mask information providing information related to which predetermined events invalidate the version-specific attribute, said method comprising:

receiving an access attempt relating to an access request;

determining whether the access attempt relates to an invalidating access;

if the access attempt relates to an invalidating access:

invalidating the version-specific attribute;

performing the access operation related to the access request; and

if the access attempt does not relate to an invalidating access then performing the access operation related to the access request.

11. (Original): A method of accessing a file as defined in claim 10 wherein if the access attempt does not relate to an invalidating access, then said method further comprises:

determining whether the access depends on the version specific attribute;

if the access does not depend on the version specific attribute, then performing the access operation related to the access request;

if the access depends on the version specific attribute:

determining whether the attribute is valid;

performing a predetermined operation based on whether the attribute is determined to be valid.

12. (Original): A computer program product readable by a computer and encoding instructions for executing the method recited in claim 10.

13. (Previously presented): A computer-readable medium having stored thereon a data structure, wherein the data structure comprises:

an actual file data section containing actual file data;

a header section; and

a version specific attribute section, wherein the version-specific attribute section is created by a third party application and wherein the version-specific attribute comprises a meta information section and a mask information section, the mask information section providing information related to which predetermined events invalidate the version-specific attribute, and wherein the version-specific attribute is invalidated in response to a one of said predetermined events.

14. (Previously presented): A computer-readable medium as defined in claim 13 wherein the meta information section stores the name of the attribute, and wherein the version-specific attribute further comprises:

a version information section for storing information related to the version of the third party application used to create the version-specific application.

15. (Previously presented): A computer readable medium as defined in claim 14 wherein the third party application performs virus scanning functions and wherein the version information section stores information related to a virus definition file.

16. (Previously presented): A computer readable medium as defined in claim 14 wherein the predetermined event relates to a modification of the data structure.

17. (Previously presented): A computer program product readable by a computer and encoding instructions for executing a computer process for managing version-specific information for a file within a file system, said computer process comprising:

storing version-specific information as an attribute to create a version-specific attribute for the file, wherein the version-specific attribute comprises meta information and mask information, the mask information providing information related to which predetermined events invalidate the version-specific attribute; and

invalidating the version-specific attribute in response to a predetermined access attempt.

C 18. (Original): A computer program product as defined in claim 17 the computer comprises a file system and the acts of storing and invalidating are performed by the file system.

19. (Original) A computer program product as defined in claim 17 wherein the version-specific information relates to third party application information.

20. (Original): A computer program product as defined in claim 19 wherein the third party application performs virus scanning functions and wherein the predetermined access attempt relates to a modification of the file.

21. (Original): A computer program product as defined in claim 20 wherein the version-specific attribute remains following one of the following access attempts: copy, rename or backup.

---